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APPLICATION NO.	1	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/606,938		06/27/2003	Chan-Jung Park	1594.1258	1594.1258 4442	
21171	7590	11/03/2006		EXAMINER		
STAAS & I	HALSE	Y LLP	JOLLEY, KIRSTEN			
SUITE 700 1201 NEW YORK AVENUE, N.W.				ART UNIT	PAPER NUMBER	
WASHINGT	WASHINGTON, DC 20005			1762	·	
				DATE MAILED: 11/03/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Assistant Communication	10/606,938	PARK ET AL.					
Office Action Summary	Examiner	Art Unit					
	Kirsten C. Jolley	1762					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 07 Au	Responsive to communication(s) filed on <u>07 August 2006</u> .						
<i>,</i>	<i>,</i> —						
·	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) Claim(s) 1.4-7.9.19-23 and 25 is/are pending in	Claim(s) <u>1,4-7,9,19-23 and 25</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>23 and 25</u> is/are allowed.	, ,						
6)⊠ Claim(s) <u>1,4-7,9 and 19-22</u> is/are rejected.							
7) Claim(s) is/are objected to.							
<u> </u>	Claim(s) are subject to restriction and/or election requirement.						
Application Papers	·						
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	Paper No(s)/Mail Da 5) Notice of Informal Pa	te					
Paper No(s)/Mail Date	6) [] Other:						

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DETAILED ACTION

Response to Arguments

- 1. The 35 USC 112, 1st and 2nd paragraph rejections set forth in the prior Office action have been withdrawn in response to Applicant's amendments to the claims and arguments.
- Applicant's arguments filed August 7, 2006 regarding the 35 USC 103(a) rejections have 2. been fully considered but they are not persuasive. Applicant argues that Kropf teaches nanosized materials in hygiene products such as diapers, tampons, pantyliners, and the like, which is a woven or nonwoven surface coated with modified nanoparticles wherein a portion of the woven or nonwoven surface is in contact with the skin to provide a moisture- and odor-absorption action, and that Kropf does not teach or suggest application to a filter body or home appliance. The Examiner disagrees. Merriam-Webster's Collegiate Dictionary, Tenth Edition defines "filter" as "a porous article or mass through which a gas or liquid is passed to separate out matter in suspension." While Kropf et al. does not refer to the woven or nonwoven surface as a "filter," Kropf et al. states in paragraph [0055] that "the middle section of a top sheet (uppermost nonwoven of a diaper) is hydrophilic in order to be able to absorb the liquid and to convey it to the lower layers." Thus Kropf et al. teaches that its nonwoven sheet in a diaper, for example, is a porous article through which a liquid is passed. It is well known that solid matter/particulates, i.e., solid waste, is captured in the uppermost layer of a diaper and not passed through the porous top sheet to the underlying layers. Thus it is the Examiner's position that the nonwoven diaper product of Kropf et al. meets the limitation of a filter body.

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Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the

subject matter which the applicant regards as his invention.

4. Claim 9 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing

to particularly point out and distinctly claim the subject matter which applicant regards as the

invention.

Throughout claim 9, the claim requires application to a "filter body of a home appliance

body," however lines 16-17 require "wherein the body is a home appliance selected from among

refrigerators, washing machines and air conditioners." It is not clear whether the claim does not

in fact read on application to a filter body at all, or whether lines 16-17 are intended to merely

further limit the types of home appliance body on which the coating may be applied. Because

there is no antecedent basis for "the body", this claim is confusing. For the purpose of

examination, the claim has been interpreted as being limited to application on a home appliance

body only (of the type claimed), and not on a filter body, because that is what appears to be

intended. However, the Examiner notes that if claim 9 is intended to be broad enough to read on

use on a filter body as well, then claim 9 will be rejected over Kropf et al. for similar reasons as

claim 1.

Claim 9 also contains improper Markush language. The phrase "selected from among"

should be --selected from the group consisting of--.

Claim Rejections - 35 USC § 103

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5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the

manner in which the invention was made.

6. Claims 1, 4-7, and 19-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Kropf et al. (US 2005/0234416 A1)

The claims remain rejected for the same reasons set forth in the prior Office action, as

well as for the reasons discussed above in section 2.

Allowable Subject Matter

7. Claims 23 and 25 are allowed. As to claim 23, the prior art does not teach or fairly

suggest the claimed coating method, wherein the deposition includes an ion-adsorption reduction

method, in which only silver is selectively attached onto the body by use of electrolysis of silver

solution. As to claim 25, the prior art does not teach or fairly suggest the claimed coating

method, wherein the nano-sized metal particles selected from the claimed group are applied to a

surface of a copper or stainless steel filter.

8. Claim 9 would be allowable if rewritten or amended to overcome the rejection(s) under

35 U.S.C. 112, 2nd paragraph, set forth in this Office action. The prior art does not teach or

fairly suggest the claimed coating process for use on a home appliance body selected from

among refrigerators, washing machines and air conditioners.

Conclusion

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9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kirsten C. Jolley whose telephone number is 571-272-1421. The examiner can normally be reached on Monday to Wednesday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Meeks can be reached on 571-272-1423. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Kirsten C Jolley

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Primary Examiner Art Unit 1762

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